Title (en)

INFRARED FILTER OF A LIGHT SOURCE FOR HEATING AN OBJECT

Title (de)

INFRAROTFILTER EINER LICHTQUELLE ZUM ERWÄRMEN EINES OBJEKTS

Title (fr)

FILTRE INFRAROUGE DANS UNE SOURCE LUMINEUSE DESTINÉE À CHAUFFER UN OBJET

Publication

EP 2308267 A2 20110413 (EN)

Application

EP 09786619 A 20090716

Priority

- IB 2009053090 W 20090716
- EP 08300273 A 20080926
- EP 08300244 A 20080725
- EP 09786619 A 20090716

Abstract (en)

[origin: WO2010010492A2] Infrared filter of a light source for heating an object The invention relates to an optical interface for transmitting at least some infrared rays emitted from at least one light source so as to heat an object above a threshold temperature, wherein the object stops to transmit and absorbs from an infrared wavelength threshold, the optical interface comprising: -a substrate; -an interference filter on the substrate having an infrared spectral transmission T exhibiting: a first portion in the near infrared with high T, a second portion in the far infrared with low T, and an intermediary portion between first and second portions, comprising a spectral transition between high T and low T, having T=50% at a wavelength ? 0 lower than the wavelength threshold; wherein, in a range of wavelengths, the mean value of low T is adjusted so that the light source can provide in this range a complementary heating energy necessary for the total heating temperature of the object exceeds the threshold temperature. The invention also relates to a set of optical interfaces, an optical device, an arrangement of light sources, equipment for blowing performs, and a method of heating perform.

IPC 8 full level

H05B 3/00 (2006.01)

CPC (source: EP US)

H05B 3/0057 (2013.01 - EP US); B29C 49/64 (2013.01 - EP US); B29C 2035/0822 (2013.01 - EP US); G02B 5/281 (2013.01 - EP US)

Citation (search report)

See references of WO 2010010492A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2010010492 A2 20100128; **WO 2010010492 A3 20101014**; EP 2308267 A2 20110413; US 2011262116 A1 20111027

DOCDB simple family (application)

IB 2009053090 W 20090716; EP 09786619 A 20090716; US 200913055731 A 20090716